1. FEB. 2006_14:24_____NED. OCTROOIBUREAU 31 70 3527528____

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

SEST AVAILABLE COPY

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's-responsibility-to-prepare-and-furnish such translation-directly-to each-elected Office-concerned.-

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the International prefiminary examining authority:

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European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4485 Authorized Officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P045479PCT		FOR FURTHER ACTION See Form PCT/PEA/416	
International application No. PCT/NL2004/000551		International filing date (day/month/year) 04.08.2004	Priority date (day/month/year) 05.08.2003
International Patent Class A61K47/34, A61K39		lonal classification and IPC	
Applicant FUJI PHOTO FILM	B.V. et al.		
This report is the Authority under	s international prefi Article 35 and trans	minary examination report, established mitted to the applicant according to A	d by this International Preliminary Examining rticle 36.
2. This REPORT of	onsists of a total of	5 sheets, including this cover sheet.	
3. This report is al	so accompanied by	ANNEXES, comprising:	
a. 🛭 sent to ti	ne applicant and to	the International Bureau) a total of st	heets, as follows:
and/ Adm	or sheets containin inistrative Instruction	g rectifications authorized by this Authons).	been amended and are the basis of this report pority (see Rule 70.16 and Section 607 of the
beyo Sup	ond the disclosure i plemental Box.	n the international application as filed,	ity considers contain an amendment that goes as indicated in Item 4 of Box No. I and the
6001000	a lietina andbr tebl	ineau only) a total of (indicate type and es related thereto, in computer readab isting (see Section 802 of the Adminis	number of electronic carrier(s)) , containing a ple form only, as indicated in the Supplemental strative instructions).
4. This report conf	ains indications rel	ating to the following items:	•
⊠ Box No. I	Basis of the opin	ion	
☐ Box No. II	Priority		
☐ Box No. III		nt of opinion with regard to novelty, in	ventive step and industrial applicability
Box No. TV	Lack of unity of i	nvention	
⊠ Box No. V	Reasoned states applicability, cita	nent under Article 35(2) with regard to tions and explanations supporting suc	o novelty, inventive step or industrial th statement
☐ Box No. VI	Certain docume		
☐ Box No. VII		n the international application	
☐ Box No. VIII	Certain observa	ions on the international application	·
Date of submission of the	ne demand	Date of comple	stion of this report
25.03.2005		29.06.2005	
Name and mailing addr	ess of the internation	Authorized Offi	icer
preliminary examining a European D-80298	uthority: n Patent Office	Telephone No.	. +49 89 2399-

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10/5670/8 AP9 Recuper 10/5670/8

*INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NL2004/000551

	Box No. I Basis of the report			
1.	With regard to the language, this filed, unless otherwise indicated	s report is based on the international application in the language in which it was under this item.		
	which is the language of a to	slations from the original language into the following language , anslation furnished for the purposes of:		
	 international search (und publication of the international preliminary 	er Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)		
 With regard to the elements* of the international application, this report is based on (replacementary been furnished to the receiving Office in response to an invitation under Article 14 are referenced as *originally filed* and are not annexed to this report): 		ving Office in response to an invitation under Article 14 are referred to in this		
	Description, Pages			
	1-15	as originally filed		
	Claims, Numbers			
	1-17	as originally filed		
	Drawings, Sheets			
	1/3-3/3	as originally filed		
	a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing		
З.	☐ The amendments have resulted in the cancellation of:			
	the description, pages			
	☐ the claims, Nos.☐ the drawings, sheets/figs			
	The sequence listing (spe	ecity):		
	any table(s) related to se	equence listing (specify):		
4.	. This report has been estable had not been made, since they lead the supplemental Box (Rule 70.2(c)	ished as if (some of) the amendments annexed to this report and listed below have been considered to go beyond the disclosure as filed, as indicated in the		
	☐ the description, pages			
	the claims, Nos.			
	☐ the drawings, sheets/figs☐ the sequence listing (spe			
	any table(s) related to se			
		ome or all of these sheets may be marked "superseded."		

*INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NL2004/000551

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

Claims No:

1-17

Inventive step (IS)

Yes: Claims

Claims No:

1-17 1-17

Industrial applicability (IA)

Yes: Claims

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/NL2004/000551

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documents are referred to in this communication, the numbering will be adhered to in the rest of the procedure:

D1 (WO 01 34 801 A), disclosing the preparation of recombinant gelatines for vaccines and the vaccines obtained, also in dry form;

D2 (US 2003 064 074 A), disclosing the preparation of recombinant gelatines for vaccines; D3 (Godard P et al, Journal of Polymer Science, 1978, vol. 16, no. 10, pages 1817-1828). disclosing the dependency of the gelation (crystallisation) and melting behaviour of aqueous gelatin on temperature, concentration and molecular composition; D4 (Apostolov A. A. et al: Journal of Applied Polymer Science, (1999), 71(3), 465-470); disclosing the behaviour of water molecules in gelatin: crystallization behaviour and effects

Unless otherwise indicated, reference is made to the relevant passages emphasized in the Search Report.

Novelty

on gelation.

The present set of claims 1-17 does not appear to be novel as required by Art. 33(1) and (2) PCT over D1. In fact, D1 discloses the advantages (in terms of immunogenicity and infection risks) of the use of recombinant/synthetic gelatines, also as mixtures of polymers with with different molecular weights, for the preparation of vaccine compositions with respect to the natural-products. Moreover, although the limit of 2% water content is not mentioned, the vaccines are said to be obtainable also in dry or freeze-dried/lyophilized form. These forms are considerd to implicitely disclose a very low (<2%) water contents. Therefore, D1 is novelty destroying for claims 1-17.

Inventive step 2.

Even if claims 1-17 could be rendered novel by the restriction to a particular embodiment,

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET) International application No.

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their inventiveness according to Art. 33(1) and (3) PCT could not be acknowledged. The problem is to provide a process which allows to obtain a particularly stable preparation. D1 and D2, which can be considered the closest prior art items, disclose the use of recombinant gelatin as a stabilizer for vaccine preparations. The difference in the present application is the mention of a very low water contents. However, in particular D3 shows that increasing water concentrations lower the temperature at which the phisico-chemical properties of gelatin change (gelation/crystallization). It would therefore be obvious for the skilled person wanting to improve the vaccine shelf-life to reduce the water contents in the preparation.